TOTALLY FOCUSED ON

WELDERS AND CUSTOMISED POWER SOLUTIONS
Our unique company

We are a totally unique company in many ways. We only make one kind of product, and we've been totally focused on producing high quality alternators since we were established in 1947. Today, we have factories or distribution centres in every continent, and we are the world’s largest independent producer of alternators. We are independent in every important way, and all of our customers know that we never compete with any of them in the end market (we don’t sell complete generator sets). We are totally unique because of the special combination of qualities that set us apart from our competitors. We offer the highest levels of service to our customers, and we put them at the forefront of every single decision we make, which continually spurs us on to terms of our continuous development, product innovation and constantly evolving product ranges.

Totally committed to global production

We manufacture the widest possible range of low voltage alternators – from our ‘made for manufacturing’ product design in Italy, the UK, China and India. Our network of factories is supported by wholly-owned subsidiaries across the globe who specialise in the same distribution and after-sales for all Mecc Alte products. This global support ensures that our customers get the assistance they need, wherever they are.

Totally committed to quality

We’ve reached the highest possible quality standards in every area of design, production and sales. At Mecc Alte, our constant pursuit of quality begins well before the actual production process with careful checks on semi-processed parts and sample testing of electrical components. We produce over 1,400 alternators every day, over 450,000 a year. We have a complete range of products and our production process is totally integrated. This means that every production phase from the design and selection of materials right through to manufacturing and after-sales assistance, comply with the strictest international and organisational standards.

Our unique people

We are over 1,200 unique people throughout the world. Every one of them is totally committed to the high level of service that we offer our customers, and to making sure that every single alternator we produce meets the world-class standards that Mecc Alte is renowned for.

Our Italian heritage, experience and expertise

Our manufacturing process

Our products

Specialised power solutions

Our permanent magnet generator (PMG) range

Our low voltage range

Operational considerations

Quality, services and aftersales
Mecc Alte was established in 1947 in Alte, Vicenza, Italy and has continuously evolved from its humble beginnings into a global brand in the 21st century.

Our strategic decision in the early 70s to specialise in only producing alternators has allowed us to attain a leading global position in the electromechanical field.

The Carraro family has retained sole ownership and, as an independently-owned private company, has focused on achieving the highest possible levels of specialisation, quality and service. We concentrate on servicing our customers and, what's more, we never compete with them in the end market.

Mecc Alte is in the business of transforming mechanically generated energy into electrical energy – so we only sell alternators. We are proud to be a flexible and fast-acting company and our 100% ownership of our supply and distribution channels gives us complete control in the marketplace.

Zanardi is a leading manufacturer of rotating electrical equipment, welders and customised power solutions. We are part of the Mecc Alte Group, which has specialised in only producing alternators since 1947.

Our products are currently being utilised in the following applications:

- Prime Power
- Agriculture
- Telecommunications
- Fisheries
- Homes
- Marine
- General Industry
- Rental
- Power Stabilising
- Military
- CHP

We are a highly flexible company, ideally equipped to meet the ever-changing requirements of the power generation sector. We are flexible, innovative manufacturers of advanced quality alternators and components.

Zanardi has vast experience in many market sectors and supplies products worldwide – in a very diverse range of applications. The technical expertise and inherent quality that are hallmarks of our manufacturing capability has led to an increasing demand within all power generation sectors.

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Our Italian heritage, experience and expertise

We have extensive experience. We know what is needed from the industry we serve and we aim to provide it.
OUR MANUFACTURING PROCESS

Our new, purpose-built factory puts us in a very strong position. We are able to support our customers and meet the increasing demand for our products even more effectively than before.

Able to manufacture machines to the highest possible standards, with full test facilities and research and development capabilities, we can quickly provide solutions to any power requirement. The entire productive cycle, from the phase of design to production, is supported by an efficient and dependable manufacturing and commercial centre which offers our customers a highly professional service.

Our facilities cover over 5,000m² and we can handle both short production runs of highly specialised product or large volume runs to support the needs of our clients. As a very flexible and reactive company, we can react and maximise any market opportunities for our customers and ourselves.

Every one of our alternators is manufactured with carefully selected materials and components. Our production process consists of various stages of advanced manufacturing in order to ensure the best possible build quality.

Zanardi is a leading exponent of quality design and employs highly effective, dedicated software. Our alternators have a paralleled similarity to Mecc Alte products due to a maximisation of joint resources and skills. We are equipped to offer a standard selection of products and also have the ability to provide customised products too. All of our welders are fully designed and tested in-house.

OUR TECHNICAL DIVERSITY

As well as our own technical division, we also benefit from being part of the Mecc Alte Group. This is crucially important when it comes to designing the fundamental basics of a machine. In order to match any customer requirements, we have an independent, in-house technical office, with a purpose-built testing facility for prototypes, and research and development within our factory. Consequently, any machine modification can be designed and tested inside our own facility. This important capability allows us to satisfy customer needs and ensures the reliability of our machines – even if they have been technically customised from the traditional design.

We design all our products through advanced computerised design systems and every part is carefully selected for its quality and performance which defines the characteristics of our products. This advanced technology allows rapid prototyping enabling us to offer a very fast technical solution and quick product feedback to our clients.

OUR PRODUCT RANGE INCLUDES:

WELDING ALTERNATORS

Welders AC 2 poles (55-200A – 4kVA – 7kVA / 50Hz)

(55-220A – 7kVA – 8kVA / 60Hz)

Welders DC 2-4 poles (35-500A – 4kVA – 15kVA / 50Hz)

(35-530A – 4kVA – 18kVA / 60Hz)

2 POLE ALTERNATORS

Three phase brush – compound regulation (6kVA – 55kVA / 50Hz) (7.2kVA – 65kVA / 60Hz)

Three phase brushless – electronic regulation (22kVA – 82kVA / 50Hz) (26.5kVA – 98.5kVA / 60Hz)

DC ALTERNATORS

A12A – low voltage DC alternators (4 Ian x 4 phase 1/4 or 1/3 / 4 / 5 / 6 / 7kVA)

A12 – low voltage DC alternators (2 or 4 pole / 5 or 6 phase / 4 / 7kVA)

4 POLE ALTERNATORS

Single phase – brushless – electronic regulation (11kVA – 20kVA / 50Hz)

Three phase brush – compound regulation (15kVA – 35kVA / 20kVA) (20kVA – 44kVA / 60Hz)

Three phase brushless – electronic regulation (18kVA – 50kVA / 50kVA) (13.2kVA – 84kVA / 60Hz)

PERMANENT MAGNET GENERATORS

PM4 (2 – 4kVA)

PM6 (8 – 10kVA)

PM15 (15 – 20kVA)

PHMG (DC field speed)

OUR PRODUCTS

SPECIALISED POWER SOLUTIONS

Customised power solutions

Wound components

PM4 (DC field speed)
OUR ROTATING WELDER RANGE

The AC brushless generators-welders series denominated HM1 guarantees unlimited operation with minimum maintenance. In fact, its particular system enables the user to have full maximum power – either as a single phase generator or as a welder. With a distribution along the sides of the unit for output sockets, the product is really easy to use and delivers great accessibility and a comprehensive number of different panel options.

The PW2 and PW3 generators–welders series are brush-type 2 pole alternators with compound or compound-electronic regulation. This feature guarantees output voltage precision and motor-starting capability. Created due to well-established and continuous experiences in the welding sector, this rotating DC welder series has models with 3 phase and derived 1 phase or pure 1 phase generator output. A unique characteristic of the series (models 200, 220) is that it automatically disconnects the generator output when it is being used in the welder function. This avoids having dangerous voltages and prevents overload. Instead, in the generator function, there is a protection which, due to its specific system characteristics, prevents dangerous voltages in the generators – in case of accidental short circuit in the welding part. The selection of the required function, and of the output current regulation current, is governed by two commutators in the rear panel.

All units have insulation systems to Class H requirements through advanced impregnation processes and material selection. The PW series has been engineered to satisfy the end-user that has specific medium power requirements and it allows the use of single or three phase utensils and of a DC welder which uses all types of electrodes (rutile, basics, cellulosics).

WELDERS DC 2 POLES

<table>
<thead>
<tr>
<th>Code</th>
<th>Poles</th>
<th>Power @ 50Hz (kVA)</th>
<th>Welding Current @ 50Hz (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PW2 170T DC</td>
<td>2</td>
<td>2/4</td>
<td>40÷170</td>
</tr>
<tr>
<td>PW2 200T DC</td>
<td>2</td>
<td>3/5</td>
<td>40÷200</td>
</tr>
<tr>
<td>PW2 220T DC</td>
<td>2</td>
<td>3/6</td>
<td>40÷220</td>
</tr>
<tr>
<td>PW2 200M DC</td>
<td>2</td>
<td>4</td>
<td>40÷200</td>
</tr>
<tr>
<td>PW2 220M DC</td>
<td>2</td>
<td>5</td>
<td>40÷240</td>
</tr>
<tr>
<td>PW2 200EDLC</td>
<td>2</td>
<td>4.5</td>
<td>40÷200</td>
</tr>
<tr>
<td>PW2 220EDLC</td>
<td>2</td>
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</tr>
<tr>
<td>PW3 300T DC</td>
<td>2</td>
<td>4/10</td>
<td>40÷300</td>
</tr>
</tbody>
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The PW series has been engineered to satisfy the end-user that has specific medium power requirements and it allows the use of single or three phase elements and of a DC welder which uses all types of electrodes (rutile, basics, cellulosics).

The frame is made of Fe P12 steel, and all shafts are C45, to ensure the unit can withstand the environmental and is resistant to vibration. All units have insulation system to Class H requirements through advanced impregnation processes and material selection.

WELDERS AC 2 POLES RANGE

<table>
<thead>
<tr>
<th>Code</th>
<th>Poles</th>
<th>Power @ 400Hz (kVA)</th>
<th>Welding Current @ 400Hz (A)</th>
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<tr>
<td>HM1 130AC</td>
<td>2</td>
<td>4kVA</td>
<td>55÷130</td>
</tr>
<tr>
<td>HM1 180AC</td>
<td>2</td>
<td>6kVA 7kVA</td>
<td>55÷180 55÷220</td>
</tr>
<tr>
<td>HM1 200AC</td>
<td>2</td>
<td>7kVA 8kVA</td>
<td>55÷200 55÷220</td>
</tr>
</tbody>
</table>

All units have insulation systems to Class H requirements through advanced impregnation processes and material selection.

The AC welder is governed by a selector switch which controls the two functions (generator or welder) and by a commutator which regulates the welding current with seven positions on two scales (one scale for 130 amp version). All of this is packed inside a solid and rugged aluminium structure with a compact and light design and IP23 protection level.

The frame is made of Fe P12 steel, and all shafts are C45, to ensure the unit can withstand the environmental and is resistant to vibration. All units have insulation system to Class H requirements through advanced impregnation processes and material selection.

WELDERS AC 2 POLES RANGE

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Again… a variety of socket boxes allows configuration of the socket on the side of the unit for maximum access.

The frame is made of Fe P12 steel, and all shafts are C45, to ensure the unit can withstand the environmental and is resistant to vibration. All units have insulation system to Class H requirements through advanced impregnation processes and material selection.

The PW series has been engineered to satisfy the end-user that has specific medium power requirements and it allows the use of single or three phase utensils and of a DC welder which uses all types of electrodes (rutile, basics, cellulosics).

WELDERS DC 2 POLES

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The AC welder is governed by a selector switch which controls the two functions (generator or welder) and by a commutator which regulates the welding current with seven positions on two scales (one scale for 130 amp version). All of this is packed inside a solid and rugged aluminium structure with a compact and light design and IP23 protection level.

The frame is made of Fe P12 steel, and all shafts are C45, to ensure the unit can withstand the environmental and is resistant to vibration. All units have insulation system to Class H requirements through advanced impregnation processes and material selection.

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The PW series has been engineered to satisfy the end-user that has specific medium power requirements and it allows the use of single or three phase elements and of a DC welder which uses all types of electrodes (rutile, basics, cellulosics).
This series of welder generators has been designed to ensure high performance and maintenance-free operation. The EPW3, EPW4, and EPW5 welder-generators are brushless excitation (with rotating diodes) and a total electronic regulation. The generator is regulated using the EVR01 regulator, and the welding current is regulated by “chopper” technology to obtain high welding quality (DC high frequency 40KHz). Due to a special design, this system also allows for simultaneous use of the alternator and the welder. This special circuit also permits the forcing of the arc, anti-blockage, and is protected against short circuits on the exit from welding. The frame is made of Fe P12 steel, and all shafts are C45, to ensure that the unit can withstand rugged environments and is resistant to vibration. All units have insulation system to Class H requirements through advanced impregnation processes and material selection.

The EPW3-4-5 series has been sized to satisfy the most professional requirements of the welding sector, as it can be employed with high duty cycles in synergy with a 3 phase alternator which has optimum characteristics. All types of electrodes can be welded (basic cellulose).

### Special Products

Our technical knowledge allows us to develop customised power solutions through many different types of alternator. The following list is a brief description of some of the special products that exist in our vast product library, all purpose built to meet a specific market need.

#### Welders DC 2-4 poles with AC-DC Chopper Converter (35÷500A - 4kVA÷15kVA / 50Hz AND 60Hz)

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<td>EPW3 300T DC</td>
<td>2</td>
<td>4/10kVA</td>
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<td>35÷300</td>
</tr>
<tr>
<td>EPW4 400T DC</td>
<td>4</td>
<td>10/15kVA</td>
<td>6/11kVA</td>
<td>35÷350</td>
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<tr>
<td>EPW5 500T DC</td>
<td>4</td>
<td>10/15kVA</td>
<td>10/18kVA</td>
<td>35÷500</td>
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</tbody>
</table>

### Specialised Power Solutions

- **Special voltage generator, either AC or DC**
- Basics range of simplified asynchronous alternators available
  - 2 poles, brushed or brushless
  - 4 poles, brushed or brushless
- **Variable speeds generators**

The EPW3-4-5 series is available in a wide range of models, with or without remote control, and can be equipped with a wide range of accessories to meet specific requirements.

**Welders DC 2-4 poles with AC-DC Chopper Converter**

**SPECIALISED POWER SOLUTIONS**

**SPECIAL PRODUCTS**

Our technical knowledge allows us to develop customised power solutions through many different types of alternator. The following list is a brief description of some of the special products that exist in our vast product library, all purpose built to meet a specific market need.
OUR PERMANENT MAGNET GENERATOR (PMG) RANGE

PERMANENT MAGNET GENERATOR AND ELECTRONIC POWER INVERTER

Unlike machine of '90s, the new Mercurio Permanent Magnet Generator allow considerable benefits. Physical benefits with reductions in weight and volume, coupled with electronic benefits, ensure a superior technology devised to maximise efficiency of the complete power system.

Our Permanent Magnet Generator has an internal EMI filter which works in a system with a single phase invertor. The determinable fixed speed is selected depending on operational requirements and AC, voltage levels can be adapted to suit operational requirements.

SPEED CONTROL MODULE

An optional board made for the control of a synchronous engine is able to handle the starting and stopping of the engine during normal operation. It can also control the engine speed by adjusting it according to operation requirements (voltage output) and current delivered (voltage output) delivered from the invertor through a dedicated CAN communication line. The board handles the bring-up and sequenced of the various outputs for the proper operation of the motor control. Through an interface with a dedicated user panel (i.e. display), you can control the start of the engine motor (i.e. diesel engine) and, once you reach a stable rotation speed, enable the voltage generation of the invertor. It also enables the engine speed by adjusting it according to operation intelligence during normal operation. It can also control the engine speed by adjusting it according to operation intelligence.

OUR LOW VOLTAGE RANGE

The AL series of the voltage generators use established synchronous alternator technology to develop lower than usual voltages for specific applications. Using 3ph, 4 and 6 phase windings, a new range of applications is found for the voltage AC output can be rectified to DC through a machine-mounted rectifier cooled by an integral fan. In DC, the machines are regulated by our RT regulator, specific to the DC machines.

The AL series can be used for other applications or where voltages are not restricted to a synchronous speed, so you can have fixed, 2 speed or variable speed for the engine such as 2200-2500rpm. The AL series can also control the start of the engine motor (i.e. diesel engine) and, once you reach a stable rotation speed, enable the voltage generation of the invertor. It also enables the engine speed by adjusting it according to operation intelligence during normal operation. It can also control the engine speed by adjusting it according to operation intelligence.

Frame design is the same as for conventional AC machines as no changes are required to generate voltage or enclose, making a switch to DC very simple.
We have reached the highest possible quality standards in every area of design, production and service. With us, the pursuit of quality begins long before actual production, with checks on semi-processed parts and sample tests on electronic components.

These tests are performed with rapid aging methods by means of alternating exposure to extreme temperatures. Our quality is enhanced during the production process with computerised equipment making checks on electronic and electrical circuits. The high quality of our finished products is due to a perfect combination – high performance and maximum reliability.

Every quality mark is a guarantee of the rigorous assessment of prototypes and a commitment to continuous audits by external inspectors to monitor product consistency – and product quality.

This quality assurance allows us to be proud of our products. Our products are now globally recognised. This high market acceptance has originated from a combination of effective marketing through our sales and distribution facilities, established training plans for our many customers, and consistently great aftersales service. We are a professional and responsible company who understand that a good reputation breeds success.

We recognise that our reputation depends on continually delivering high standards of support – wherever and whenever it is required. With an extensive global service and aftersales network, you can be assured that your product will be supported anywhere in the world.

Our quality is certified by international bodies and is supported by our ISO 9001 accreditation across the whole group. Ask factories for individual certifications. This quality assurance allows us to be proud of our products and gives you peace of mind knowing our alternators are built with the highest possible quality standards.

We encourage our customers to understand where the alternator will be used and to consider the implications of its operating environments. This will enable us to recommend the correct alternator and to suggest any additional processes or requirements that may need to be considered to extend the alternator’s performance and lifespan.

If an alternator is to be operated outside the normal temperature and altitude parameters of 40°C ambient and 1000m above sea level, then the following adjustments must be applied.

In addition, other considerations should be made if an alternator is to be operated in harsh environments. We can supply additional protection levels such as IP43, IP45 and even IP55 in these cases. If the environment is found, we supply any necessary filters.

We can also upgrade the insulation protection system after the alternator is in operation. Solutions such as GREY EG43 severe environment protection or TOTAL+ protection with black severe environment protection. It is vital in this warning for the finishers of environments.

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We are proud that our alternators have many features built in as standard. This enables them to be used in a multitude of applications and environments.

**OPERATIONAL CONSIDERATIONS**

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<td>Mecc Alte SpA (HQ)</td>
<td>Via Roma 20 – 36051 Creazzo Vicenza – ITALY</td>
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<td>+39 0444 396166</td>
<td><a href="mailto:info@meccalte.it">info@meccalte.it</a></td>
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<tr>
<td>Mecc Alte Portable</td>
<td>Via A. Volta 1 37038 Soave Verona – ITALY</td>
<td>+39 0456 173411</td>
<td>+39 0456 101880</td>
<td><a href="mailto:info@meccalte.it">info@meccalte.it</a></td>
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<tr>
<td>Mecc Alte Power Products</td>
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<td>+39 0444 1831295</td>
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<tr>
<td>Zanardi Alternatori</td>
<td>Via Dei Laghi 48/B – 36077 Altavilla Vicenza – ITALY</td>
<td>+39 0444 370799</td>
<td>+39 0444 370330</td>
<td><a href="mailto:info@zanardialternatori.it">info@zanardialternatori.it</a></td>
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<td>United Kingdom</td>
<td>Mecc Alte U.K. LTD 6 Lands’ End Way Oakham Rutland LE15 6RF</td>
<td>+44 (0) 1572 77160</td>
<td>+44 (0) 1572 77161</td>
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<tr>
<td>U.S.A. and Canada</td>
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<tr>
<td>Spain</td>
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<td>India</td>
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